

PLUS  
Search

09/929023

09929023 WEST

(6094496 5687230 5299132 5398190 5513111 5519621 5652707 5832394 58842  
21 6148202 4945570 5182765 5845207 5903135 5978689 6154666 6195572 610  
8566 5668869 4811390 5588041 5634209 5649316 6058319 5243640 5459702 5  
509048 5535258 5555448 6031492 5915239 6012105 6236969 5953674 6002945  
6014573 6047196 6081724 6081594 6122531 6125289 6138040 6192126 62231  
54 6226529 6223154 6226529 6259932 6377825 6567651).pn.

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PLUS Search Results for S/N 09929023, Searched July 01, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09929023 on July 01, 2004

Original Classifications

4 455/569.2  
3 455/556.1  
3 455/557  
3 455/569.1  
2 379/420.02  
2 455/345  
2 455/456.3  
2 455/564  
2 455/570  
2 704/233  
2 704/275

Cross-Reference Classifications

6 455/351  
4 340/990  
4 455/563  
3 379/388.04  
3 379/420.03  
3 455/457  
3 455/557  
3 455/566  
3 455/569.1  
3 455/569.2  
3 455/575.9  
2 340/995.12  
2 342/457  
2 343/711  
2 343/807  
2 370/493  
2 370/494  
2 370/495  
2 379/354  
2 379/388.03  
2 379/88.01  
2 381/365  
2 381/57  
2 455/128  
2 455/456.1  
2 455/570  
2 455/575.7  
2 701/207  
2 701/225  
2 704/270

Combined Classifications

7 455/569.2  
6 455/351  
6 455/557  
6 455/569.1  
5 455/563  
4 340/990  
4 455/457  
4 455/556.1  
4 455/570  
3 379/388.04  
3 379/420.03  
3 455/345  
3 455/566  
3 455/575.9  
2 340/995.12  
2 342/457  
2 343/711  
2 343/807  
2 370/493  
2 370/494  
2 370/495  
2 379/354  
2 379/388.03  
2 379/390.01  
2 379/420.02  
2 379/88.01  
2 379/88.04  
2 381/365  
2 381/57  
2 455/128  
2 455/456.1  
2 455/456.3  
2 455/564  
2 455/575.1  
2 455/575.7  
2 455/99  
2 701/207  
2 701/225  
2 704/233  
2 704/270  
2 704/275

able 1  
above 3  
abstract 1  
accessories 1  
accommodate 1  
accommodates 1  
adapted 1  
adjacent 6  
adjust 1  
advantage 3  
after 1  
air 1  
aligned 1  
all 2  
allow 3  
allowing 2  
allows 2  
almost 2  
also 1  
ambient 1  
an 7  
and 71  
ann 1  
another 5  
answered 1  
any 2  
apparent 1  
approach 2  
approaches 2  
arc 1  
are 10  
arm 4  
around 4  
arranged 1  
arrangement 4  
arrangements 1  
art 1  
as 10  
assembly 2  
at 7  
attached 1  
attempt 1  
audio 1  
avoids 1  
background 1  
battery 1  
be 6  
been 2

behind 2  
between 5  
both 4  
brief 1  
broadcast 1  
broadly 1  
bushings 6  
by 9  
call 1  
calls 1  
cannot 1  
captures 1  
car 1  
cd 1  
center 2  
centerline 3  
charge 1  
cigarette 1  
clarity 1  
close 2  
coincident 2  
column 1  
combination 3  
communicate 2  
communicated 2  
complains 1  
completely 1  
comprised 5  
concerns 2  
conditioning 1  
conditions 1  
configuration 1  
configured 1  
congested 1  
conjunction 1  
connect 3  
connected 1  
connecting 6  
connections 1  
console 1  
constrain 1  
constrained 1  
continues 1  
controls 2  
convenience 1  
conventional 1  
conversation 1  
countries 1

coupled 6  
couples 1  
currently 1  
dash 1  
dashboard 5  
depicts 1  
described 2  
description 2  
designed 1  
detached 1  
detailed 1  
details 1  
device 47  
devices 2  
diameter 2  
diameters 1  
different 4  
difficulty 2  
dimensions 1  
direction 1  
discerning 1  
disclosure 1  
does 2  
down 2  
drawings 3  
drive 1  
driver 7  
drivers 4  
driving 1  
during 1  
each 1  
ear 2  
ease 1  
easily 2  
effortless 1  
electrically 3  
elongated 12  
embodiment 2  
embodiments 1  
embraces 1  
employ 1  
employing 2  
employs 2  
end 6  
engage 3  
ensure 1  
environment 1  
environments 1

epo 1  
equipped 1  
especially 1  
established 1  
european 1  
even 1  
exact 1  
examples 1  
exceedingly 1  
exist 1  
expeditious 1  
express 1  
extend 1  
extends 1  
far 1  
fastened 2  
fastener 6  
field 1  
fig 7  
figure 1  
finally 1  
first 3  
flexible 4  
fm 1  
followed 4  
following 1  
follows 1  
for 14  
frcc 1  
free 28  
frequently 1  
from 6  
further 2  
generally 7  
granted 1  
greatly 1  
hand 2  
hands 30  
handsets 1  
handsfree 1  
has 2  
have 2  
having 3  
he 2  
head 7  
headrest 37  
hear 2  
hearing 1

heating 1  
hen 1  
highly 3  
hold 1  
holding 1  
host 2  
housing 10  
idea 1  
if 1  
iimer 1  
il 1  
illustrates 2  
illustration 2  
improve 1  
in 43  
include 1  
included 1  
includes 7  
incoming 1  
inconvenience 1  
incorporates 1  
incorporating 2  
increased 1  
infbrmation 1  
information 1  
ingenious 1  
inherent 1  
inherently 1  
inner 1  
install 1  
installation 2  
installed 1  
instant 2  
integrally 2  
integrated 1  
intended 2  
intermediate 1  
intersects 2  
into 4  
invention 15  
involved 1  
involves 3  
irrespective 1  
is 41  
it 3  
its 4  
just 2  
keep 1

kit 1  
kits 4  
laws 2  
lighter 1  
lights 1  
like 1  
limiting 1  
line 2  
listener 1  
located 1  
locating 1  
location 2  
long 1  
loud 4  
louder 1  
ly 1  
maimer 1  
majority 1  
manner 3  
manually 1  
marked 1  
massive 1  
matching 1  
mating 3  
may 2  
means 1  
mention 1  
messages 1  
method 5  
microphone 28  
mobile 25  
module 7  
moment 1  
more 5  
motor 1  
mounted 6  
mounting 7  
mounts 1  
mouth 2  
movable 4  
moved 1  
movement 1  
myriad 1  
nature 1  
nearly 1  
necessity 1  
neck 5  
need 3

no 1  
noise 1  
non 1  
not 2  
noted 4  
november 1  
now 1  
numerals 1  
object 1  
objective 2  
obvious 1  
occupant 12  
occurs 1  
of 122  
on 14  
one 4  
operating 1  
or 2  
other 5  
others 1  
over 3  
overall 1  
pair 9  
pans 1  
parallel 2  
part 1  
partial 1  
particular 1  
particularly 1  
party 1  
passes 1  
passing 1  
patent 1  
performance 1  
perpendicular 3  
phone 28  
phones 5  
physical 1  
physically 3  
pick 1  
pillar 8  
pillars 23  
placed 1  
plate 6  
player 1  
plurality 1  
portable 2  
portion 12

position 2  
positionable 2  
positionally 1  
positioned 1  
positioning 2  
positions 1  
power 2  
preferred 2  
present 2  
primary 1  
prior 2  
problem 1  
problems 1  
procedure 1  
produces 1  
prohibit 1  
projection 2  
proliferation 1  
provide 2  
provided 5  
provides 1  
providing 2  
provision 1  
proximate 2  
proximity 1  
proxinuity 1  
quite 1  
radio 3  
range 1  
rarely 1  
rather 1  
readily 1  
receive 1  
recent 1  
recently 1  
receptacles 1  
reduces 1  
reference 2  
region 2  
reinstalling 1  
relates 1  
relationship 7  
relative 1  
remarkably 1  
removing 2  
represent 1  
resides 4  
response 2

returning 1  
roof 1  
rotatably 1  
safety 1  
sales 1  
same 2  
scat 1  
seat 23  
second 1  
section 4  
secure 3  
secured 12  
secures 1  
securing 5  
selects 1  
separate 2  
several 1  
shaped 3  
should 1  
shout 1  
shouting 2  
shown 2  
side 1  
signals 1  
similar 1  
simple 2  
simultaneously 5  
since 1  
single 1  
sized 2  
sizes 1  
slidably 1  
slowing 1  
small 1  
so 1  
some 2  
span 6  
spans 1  
speaker 22  
speakerphone 1  
speakers 1  
specifically 1  
speech 1  
stable 4  
standardization 1  
steer 1  
steering 3  
step 1

steps 1  
still 1  
strap 24  
structural 2  
structurally 3  
structure 25  
structures 1  
sts 1  
subject 1  
such 6  
summary 1  
sun 1  
support 21  
swing 1  
takes 1  
tape 1  
teaches 1  
than 1  
that 30  
the 244  
their 5  
then 4  
there 2  
thereby 7  
therein 1  
thereof 2  
thereto 1  
these 3  
they 1  
this 7  
through 3  
throughout 1  
tile 2  
to 69  
top 9  
traffic 1  
transmission 1  
turn 1  
two 2  
type 6  
unavoidable 1  
under 1  
unit 1  
universal 1  
universally 1  
up 1  
upon 1  
usc 1

use 17  
used 1  
user 11  
using 1  
usual 1  
usually 1  
utility 1  
utilize 1  
variety 1  
various 1  
vehicle 37  
vehicles 2  
via 5  
view 2  
views 1  
virtually 1  
visor 1  
voice 4  
way 1  
well 2  
wheel 1  
when 5  
wherein 3  
which 9  
while 6  
wide 2  
windshield 1  
wipers 1  
wiring 1  
with 36  
words 1  
world 1  
years 1  
yet 2

09929023 CLSTITLES

## Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09929023 on July 01, 2004

7 455/569.2 (4 OR, 3 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/550.1	.Radiotelephone equipment detail
455/569.1	..Hands-free or loudspeaking arrangement
455/569.2	...In vehicle

6 455/351 (0 OR, 6 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/347 .Cabinet, housing, or chassis structure  
455/351 ..Transportable

6 455/557 (3 OR, 3 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.)

455/550.1 .Radiotelephone equipment detail  
455/557 ..Interface attached device (e.g., interface with modem, facsimile, computer, etc.)

6 455/569.1 (3 OR, 3 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)  
455/550.1 .Radiotelephone equipment detail  
455/569.1 ..Hands-free or loudspeaking arrangement

5 455/563 (1 OR, 4 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.)

4 340/990 (0 OR, 4 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL

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340/988 VEHICLE POSITION INDICATION  
340/989 .At remote location  
340/990 ..With map display

4 455/457 (1 OR, 3 XR)  
Class 455 : TELECOMMUNICATIONS  
455/403 RADIOTELEPHONE SYSTEM  
455/422.1 .Zoned or cellular telephone system  
455/456.1 ..Location monitoring  
455/457 ...Location display

4 455/556.1 (3 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
TRANSCEIVER)  
455/550.1 .Radiotelephone equipment detail  
455/556.1 ..Integrated with other device

4 455/570 (2 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
TRANSCEIVER)  
455/550.1 .Radiotelephone equipment detail  
455/569.1 ..Hands-free or loudspeaking arrangement  
455/570 ...Noise suppression or echo cancellation

3 379/388.04 (0 OR, 3 XR)  
Class 379 : TELEPHONIC COMMUNICATIONS  
379/387.01 SUBSTATION OR TERMINAL CIRCUITRY  
379/388.01 .For loudspeaking terminal  
379/388.04 ..Voice control of transmission direction

3 379/420.03 (0 OR, 3 XR)  
Class 379 : TELEPHONIC COMMUNICATIONS  
379/419 TERMINAL  
379/420.01 .Having loudspeaking conversation capability  
(e.g., hands-free type or speakerphone)  
379/420.03 ..Hands-free microphone feature

3 455/345 (2 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/344 .Combined with diverse art device  
455/345 ..With vehicle

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3 455/566 (0 OR, 3 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

## TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail  
455/566 ..Having display

3 455/575.9 (0 OR, 3 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.)

## TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail  
455/575.1 ..Housing or support  
455/575.9 ...In vehicle

2 340/995.12 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/988 VEHICLE POSITION INDICATION  
340/995.1 .Map display  
340/995.12 ..Transmission of map data

2 342/457 (0 QB, 2 XB)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/450 .Position indicating (e.g., triangulation)  
342/457 ..Land vehicle location (e.g., bus, police car)

2 343/711 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/711 .With vehicle

2 343/807 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/793 .Balanced doublet - centerfed (e.g., dipole)  
343/807 ..Tapered, thick, or enlarged arms

2 370/493 (0 OR, 2 XR)

Class 370 : MULTIPLEX COMMUNICATIONS  
370/473 ..Transmission of a single message having  
multiple packets  
370/480 .Combining or distributing information via  
frequency channels

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370/493 ..Combined voice and data transmission

2 370/494 (0 OR, 2 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/473 ..Transmission of a single message having multiple packets  
370/480 ..Combining or distributing information via frequency channels  
370/493 ..Combined voice and data transmission  
370/494 ...Data over voice

2 370/495 (0 OR, 2 XR)  
Class 370 : MULTIPLEX COMMUNICATIONS  
370/473 ..Transmission of a single message having multiple packets  
370/480 ..Combining or distributing information via frequency channels  
370/493 ..Combined voice and data transmission  
370/495 ...Data under voice

2 379/354 (0 OR, 2 XR)  
Class 379 : TELEPHONIC COMMUNICATIONS  
379/350 SUPERVISORY OR CONTROL LINE SIGNALING  
379/352 ..Substation originated  
379/354 ..With called number display

2 379/388.03 (0 OR, 2 XR)  
Class 379 : TELEPHONIC COMMUNICATIONS  
379/387.01 SUBSTATION OR TERMINAL CIRCUITRY  
379/388.01 ..For loudspeaking terminal  
379/388.02 ..Speakerphone with build-in microphone  
379/388.03 ...Automatic gain or volume (AGC or AVC)

2 379/390.01 (1 OR, 1 XR)  
Class 379 : TELEPHONIC COMMUNICATIONS  
379/387.01 SUBSTATION OR TERMINAL CIRCUITRY  
379/388.01 ..For loudspeaking terminal  
379/390.01 ..Amplification or attenuation level control

2 379/420.02 (2 OR, 0 XR)  
Class 379 : TELEPHONIC COMMUNICATIONS  
379/419 TERMINAL  
379/420.01 ..Having loudspeaking conversation capability (e.g., hands-free type or speakerphone)  
379/420.02 ..Hands-free loudspeaker feature

2 379/88.01 (0 OR, 2 XR)  
Class 379 : TELEPHONIC COMMUNICATIONS

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379/67.1      AUDIO MESSAGE STORAGE, RETRIEVAL, OR SYNTHESIS

379/88.01      .Voice activation or recognition

2  379/88.04     (1 OR, 1 XR)  
Class 379 : TELEPHONIC COMMUNICATIONS  
379/67.1      AUDIO MESSAGE STORAGE, RETRIEVAL, OR SYNTHESIS

379/88.01      .Voice activation or recognition  
379/88.04      ..Voice controlled message management

2  381/365      (0 OR, 2 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150      ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/355      .Housed microphone  
381/361      ..Mounting or support  
381/365      ...In electronic apparatus or vehicle

2  381/57      (0 OR, 2 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/56      MONITORING OF SOUND  
381/57      .Amplification control responsive to ambient  
sound

2  455/128      (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91      TRANSMITTER  
455/128      .With casing or housing

2  455/456.1     (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/403      RADIOTELEPHONE SYSTEM  
455/422.1     .Zoned or cellular telephone system  
455/456.1     ..Location monitoring

2  455/456.3     (2 OR, 0 XR)  
Class 455 : TELECOMMUNICATIONS  
455/403      RADIOTELEPHONE SYSTEM  
455/422.1     .Zoned or cellular telephone system  
455/456.1     ..Location monitoring  
455/456.3     ...Position based personal service

2  455/564      (2 OR, 0 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73      TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

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TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail

455/564 ..Auto-dialing or repertory dialing (e.g.,  
using bar code, etc.)

2 455/575.1 (1 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.)

TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail

455/575.1 ..Housing or support

2 455/575.7 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.)

TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail

455/575.1 ..Housing or support

455/575.7 ...Having specific antenna arrangement

2 455/99 (1 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91 TRANSMITTER  
455/95 .Mobile or portable  
455/99 ..With vehicle

2 701/207 (0 OR, 2 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION  
701/207 .Employing position determining equipment

2 701/225 (0 OR, 2 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION  
701/225 .Determining range without range measurement

2 704/233 (2 OR, 0 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO

COMPRESSION/DECOMPRESSION

704/200 SPEECH SIGNAL PROCESSING

704/231 .Recognition

704/233 ..Detect speech in noise

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2 704/270 (0 OR, 2 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO  
  
                  COMPRESSION/DECOMPRESSION  
704/200       SPEECH SIGNAL PROCESSING  
704/270       .Application  
  
2 704/275 (2 OR, 0 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO  
  
                  COMPRESSION/DECOMPRESSION  
704/200       SPEECH SIGNAL PROCESSING  
704/270       .Application  
704/275       ..Speech controlled system

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6094496 75  
5687230 62  
5299132 61  
5398190 61  
5513111 61  
5519621 61  
5652707 61  
5832394 61  
5884221 61  
6148202 61  
4945570 61  
5182765 61  
5845207 61  
5903135 61  
5978689 61  
6154666 61  
6195572 61  
6108566 60  
5668869 55  
4811390 55  
5588041 55  
5634209 55  
5649316 55  
6058319 55  
5243640 55  
5459702 55  
5509048 55  
5535258 55  
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